

I. PATENT ABSTRACTS OF JAPAN

(11)Publication number : 58-185717

(43)Date of publication of application : 29.10.1983

(51)Int.Cl.

C21D 1/00

C21D 9/52

(21)Application number : 57-069286

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(22)Date of filing : 24.04.1982

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(54) MECHANISM FOR CONTROLLING COOLING CAPACITY OF SPRAY NOZZLE

(57)Abstract:

PURPOSE: To prevent the generation of distortion in a material to be cooled and to make the structure thereof uniform, by tilting the angle of the headers or shielding plates of a spray nozzle group by means of actuators thereby controlling the angle between spray nozzles and the shielding plates as desired.

CONSTITUTION: A pair of mechanisms 3 for controlling the cooling capacity of spray nozzles are disposed in the position of a material 1 to be cooled symmetrical with respect to the central line Y-Y in the transverse direction of said material. Each of the mechanisms 3 consists of a header 5 arrayed with plural spray nozzles 4, an actuator 8, and shielding plates 10a, 10b, and tilts the header 5 by a desired angle around a bearing 6 by expanding or contracting the actuator 8. Or the plates 10a, 10b are tilted. The distance between the nozzles 4 and the plates 10a, 10b is thus adjusted relatively, and the distribution in the cooling capacity along the longitudinal direction of the header 5 is

controlled.

